

Remarks

Reconsideration of the application is respectfully requested. Claims 1-13 were rejected under Section 103 as  
5 being obvious over GB 2,037,392 in view of Kalkman US 5,823,712. This rejection is respectfully traversed.

GB 2,037,392 merely describes an apparatus for flushing pipes. The propulsion device has two pairs of friction wheels 12, 13 and 14, 15 located on each side of the  
10 hose 6. There is a V-belt 16 arranged between the friction wheels to increase the propelling surface on the hose (col. 2, lines 100-107). The hose 6 has a portion disposed inside a guiding pipe 10 that guides the hose 6 into a drain pipe 4.

On page 2, third paragraph, of the Office action,  
15 the Examiner states that the supply hose is connected to a displaceable cartridge provided with a spray nozzle 4. It is submitted this statement is not correct. The reference numeral 4 refers to the drain pipe, as confirmed in col. 2, lines 89 of GB 2,037,392. The GB patent fails to teach or  
20 suggest a supply hose that is connected to a displaceable cartridge provided with a spray nozzle, as required by claim 1. The GB patent also fails to teach or suggest the cartridge being arranged in a stationary guide tube extending along the object to be sprayed. For example, the guiding pipe 10 only  
25 permits the hose 6 to slide therein. It completely fails to teach the required cartridge arranged therein.

More importantly, the GB patent also completely fails to teach or suggest the first, second and third driving wheels wherein each driving wheel has a concave jacket surface and surrounds at least 100° of the circumference of the supply  
5 hose. The GB patent merely teaches two pair of wheels each pair on each side of the side is connected by a V belt.

Kalkman does not cure these deficiencies. On page 2, last paragraph, of the Office action, the Examiner states that Kalkman teaches a traction assembly for driving a cable  
10 having first, second and third driving wheels 48. Applicant respectfully disagrees and is a bit puzzled over this statement.

Figs. 2 and 4 of Kalkman show tensioners 40a-d that, via clamping jaws 48, grip the periphery of the pipeline 12.  
15 Cylinders 44 move the tensioners and the pipeline a certain distance. The tensioners are then released and moved back to again grip the pipeline 12 and move it the same distance again. The tensions include the clamping jaws 48 (col. 2, lines 23-24).

20 It is respectfully submitted that the assertion that Kalkman has driving wheels 48 is simply not correct. The reference numeral 48 refers to clamping jaws which are distinctly difference from driving wheels. For example, this is confirmed in col. 2, lines 36, 51-52 and 60 of Kalkman.  
25 Fig. 7 show how the clamping jaws grab the pipeline 12 and pulls it a certain distance until the pipeline is released and

the clamping jaws are moved further down on the pipeline 12 and again grab the pipeline to pull it. The successive steps of the clamped and released positions are described in col. 3, lines 1-12 and col. 4, lines 3-8.

5           It is submitted that Kalkman completely fails to teach or suggest the first, second and third driving wheels wherein each driving wheel has a concave jacket surface and each concave jacket surface surrounds at least 100° of the circumference of the supply hose.

10           Even if the GB patent is combined with Kalkman, although such proposed combination is not taught or suggested, all of the limitations of claim 1 are satisfied. The combination of the references still fails to teach or suggest:

1) A supply hose connected to a displaceable cartridge

15 provided with a nozzle;

2) The cartridge arranged in a stationary guide tube extending along the object to be sprayed; and

3) The first, second and third driving wheels wherein each wheel has a concave jacket surface surrounding at least 100° of

20 the circumference of the supply hose.

Applicant fails to see why a person of ordinary skill in the art would look to the GB patent and Kalkman to learn about the cartridge, nozzle and the special 100° arrangement of the three driving wheels when all those

25 features are completely missing in the cited references.

It is submitted that the GB patent would need

extensive modifications that are not taught or suggested to arrive at all the features of the present invention. For example, it seems virtually impossible or at least very difficult to use the V-belt 16 together with the three driving wheels of the present invention so that each concave jacket surface surrounds at least 100° of the circumference of the supply hose. Also, the modification of the GB patent to include Kalkman's clamping jaws 48 and the various pneumatic cylinders 44 is not obvious. Most importantly, even if the GB patent is modified to include Kalkman's clamping jaws, all of the features of claim 1 are not met, as outlined above.

In view of the above, it is submitted that claim 1 is allowable over the cited references.

Claims 2-13 are submitted to be allowable because they depend upon the allowable base claim 1 and because each claim includes limitations that are not taught or suggested in the cited references.

Claim 4 was rejected under Section 103 as being obvious over GB '392 as modified by Kalkman as applied to claims 1 and 2 above and further in view of Noda. This rejection is respectfully traversed.

Claim 4 is submitted to be allowable because it depends upon the allowable base claim 1 and because the claim includes limitations that are not taught or suggested in the cited references.

Claims 8-12 were rejected under Section 103 as being

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obvious over GB '392 as modified by Kalkman as applied to claims 1 and 2 above and further in view of Taitel. This rejection is respectfully traversed.

5 Claims 8-12 are submitted to be allowable because they depend upon the allowable base claim 1 and because each claim includes limitations that are not taught or suggested in the cited references.

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The application is now submitted to be in condition  
for allowance, and such action is respectfully requested.

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Respectfully submitted,

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